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Approved for use through 10/31/2002, OMB 0651-0031
U.S. Patent and Trademark Office: U.S. DEPARTMENT OF COMMERCE

TECH CENTER 1600/2900

**TRANSMITTAL
FORM**

(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number	10/022,066
Filing Date	12/18/2001
First Named Inventor	William H. Hildebrand
Group Art Unit	1643
Examiner Name	J. Olsen
Attorney Docket Number	6680.034

ENCLOSURES (check all that apply)

- ☒ Fee Transmittal Form
☐ Fee Attached
☐ Amendment / Reply
☐ After Final
☐ Affidavits/declaration(s)
☐ Extension of Time Request
☐ Express Abandonment Request
☒ Information Disclosure Statement
☐ Certified Copy of Priority Document(s)
☐ Response to Missing Parts/Incomplete Application
☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

- ☐ Assignment Papers (for an Application)
☐ Drawing(s)
☐ Licensing-related Papers
☐ Petition
☐ Petition to Convert to a Provisional Application
☐ Power of Attorney, Revocation Change of Correspondence Address
☐ Terminal Disclaimer
☐ Request for Refund
☐ CD, Number of CD(s) _____

- ☐ After Allowance Communication to Group
☐ Appeal Communication to Board of Appeals and Interferences
☐ Appeal Communication to Group (Appeal Notice, Brief, Reply Brief)
☐ Proprietary Information
☐ Status Letter
☒ Other Enclosure(s) (please identify below):

See remarks below:

Remarks

1. Transmittal Form (1 page);
2. Fee Transmittal (1 page);
3. Information Disclosure Statement (5 pages);
4. Form PTO/SB/08A (formerly Form 1449) (1 page); and
5. Postcard.

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	DUNLAP, CODDING & ROGERS, P.C., P.O. Box 16370, Customer Number 30589 Attn: Kathryn L. Hester, Ph.D., Reg. No. 46,768, Oklahoma City, Oklahoma 73113
Signature	
Date	7-14-03

CERTIFICATE OF MAILING

I hereby certify that this correspondence is being deposited with the United States Postal Service with sufficient postage as first class mail or U.S. Express mail no. EV 318425600 US in an envelope addressed to the address below on this date: July 14, 2003

Typed or printed name	Kathryn L. Hester, Ph.D.
Signature	

Date 7-14-03

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PTO DEPOSIT ACCOUNT CHARGE
ACCOUNT 064-1700

Approved for use through 10/31/2002. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

PTO/SB/17 (10-02)

FEE TRANSMITTAL

for FY 2003

Patent fees are subject to annual revision.

☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) 0

Complete if Known

Application Number 10/022.066
Filing Date 12/18/2001
First Named Inventor William H. Hildebrand
Examiner Name J. Olsen
Art Unit 1643
Attorney Docket No. 6680.034

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METHOD OF PAYMENT (check all that apply)

☐ Check ☐ Credit card ☐ Money Order ☐ Other ☐ None

☒ Deposit Account:

Deposit Account Number
Deposit Account Name

04-1700

Dunlap, Coddling & Rogers, P.C.
Customer No. 30589

The Commissioner is authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☒ Credit any overpayments
☒ Charge any additional fee(s) during the pendency of this application
☐ Charge fee(s) indicated below, except for the filing fee to the above-identified deposit account.

FEE CALCULATION

1. BASIC FILING FEE

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1001 750	2001 375	Utility filing fee	
1002 330	2002 165	Design filing fee	
1003 520	2003 260	Plant filing fee	
1004 750	2004 375	Reissue filing fee	
1005 160	2005 80	Provisional filing fee	
SUBTOTAL (1)			(\$) 0

2. EXTRA CLAIM FEES FOR UTILITY AND REISSUE

Total Claims	Independent Claims	Multiple Dependent	Extra Claims	Fee from below	Fee Paid
			** =	X	= \$0
			** =	X	= \$0
					= \$0

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description
1202 18	2202 9	Claims in excess of 20
1201 84	2201 42	Independent claims in excess of 3
1203 280	2203 140	Multiple dependent claim, if not paid
1204 84	2204 42	** Reissue independent claims over original patent
1205 18	2205 9	** Reissue claims in excess of 20 and over original patent

SUBTOTAL (2) (\$) 0

**or number previously paid, if greater; For Reissues, see above

FEE CALCULATION (continued)

3. ADDITIONAL FEES

Large Entity Fee Code (\$)	Small Entity Fee Code (\$)	Fee Description	Fee Paid
1051 130	2051 65	Surcharge - late filing fee or oath	
1052 50	2052 25	Surcharge - late provisional filing fee or cover sheet	
1053 130	1053 130	Non-English specification	
1812 2,520	1812 2,520	For filing a request for ex parte reexamination	
1804 920*	1804 920*	Requesting publication of SIR prior to Examiner action	
1805 1,840*	1805 1,840*	Requesting publication of SIR after Examiner action	
1251 110	2251 55	Extension for reply within first month	
1252 410	2252 205	Extension for reply within second month	
1253 930	2253 465	Extension for reply within third month	
1254 1,450	2254 725	Extension for reply within fourth month	
1255 1,970	2255 985	Extension for reply within fifth month	
1401 320	2401 160	Notice of Appeal	
1402 320	2402 160	Filing a brief in support of an appeal	
1403 280	2403 140	Request for oral hearing	
1451 1,510	1451 1,510	Petition to institute a public use proceeding	
1452 110	2452 55	Petition to revive - unavoidable	
1453 1,300	2453 650	Petition to revive - unintentional	
1501 1,300	2501 650	Utility issue fee (or reissue)	
1502 470	2502 235	Design issue fee	
1503 630	2503 315	Plant issue fee	
1460 130	1460 130	Petitions to the Commissioner	
1807 50	1807 50	Processing fee under 37 CFR 1.17(q)	
1806 180	1806 180	Submission of Information Disclosure Stmt	
8021 40	8021 40	Recording each patent assignment per property (times number of properties)	
1809 750	2809 375	Filing a submission after final rejection (37 CFR 1.129(a))	
1810 750	2810 375	For each additional invention to be examined (37 CFR 1.129(b))	
1801 750	2801 375	Request for Continued Examination (RCE)	
1802 900	1802 900	Request for expedited examination of a design application	

Other fee (specify)

*Reduced by Basic Filing Fee Paid

SUBTOTAL (3) (\$) 0

SUBMITTED BY

Name (Print/Type) Kathryn L. Hester, Ph.D.

Registration No. (Attorney/Agent)

46,768

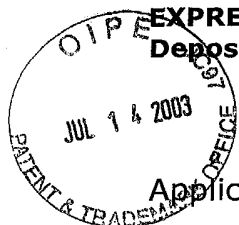
(Complete if applicable)

Telephone (405) 607-8600

Signature

Date 07/14/2003

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EXPRESS MAIL NO.:
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EV 318425600
JULY 14, 2003

PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: William H. Hildebrand

) Atty. Dkt. No.: 6680.034

Serial No.: 10/022,066

Filed: December 18, 2001

For: METHOD AND APPARATUS FOR
THE PRODUCTION OF SOLUBLE MHC
ANTIGENS AND USES THEREOF

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Commissioner for Patents
P.O. Box 1450, Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

List of Sections Forming Part of This Information Disclosure Statement

The following sections are being submitted for this Information Disclosure Statement:

1. [X] Preliminary Statements
2. [X] Form PTO-1449 (Modified)
3. [X] Copies of Listed Information Items Accompanying this Statement
4. [X] Identification of Person(s) Making this Information Disclosure Statement

Section 1. Preliminary Statements

Applicants submit herewith patents, publications or other information of which they are aware, which they believe may be material to the examination of this application and in respect of which there may be a duty to disclose.

The filing of this information disclosure statement shall not be construed as a representation that a search has been made (37 C.F.R. § 1.97(g)), an admission that the information cited is, or is considered to be, material to patentability or that no other material information exists.

The filing of this information disclosure statement shall not be construed as an admission against interest in any manner. Notice of January 9, 1992, 1135 O.G. 13-25, at 25.

Section 2. Form PTO-1449 (Modified)

☒ [X] A completed Form 1449 (Modified) is attached hereto.

Section 3. Copies of Listed Information Items Accompanying this Statement

Legible copies of all items listed in Form PTO-1449 (Modified) accompany this information disclosure statement.

Section 4. Identification of Person(s) Making this INFORMATION DISCLOSURE STATEMENT

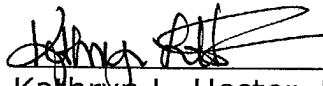
The person making this statement is the attorney/agent who signs below on the basis of the information:

☐ [] supplied by the inventor(s)

☐ [] supplied by an individual associated with the filing and prosecution of this application (37 C.F.R. § 1.56(c)).

[X] in the attorney/agent's file

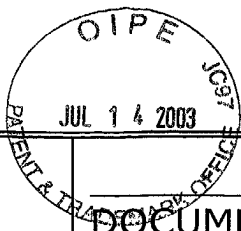
Respectfully submitted,



Kathryn L. Hester, Ph.D., Reg. No. 46,768
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P.O. Box 16370, Customer No. 30589
Oklahoma City, Oklahoma 73113
Telephone: 405/607-8600
Facsimile: 405/607-8686

Agent for Applicant

[illegible]



EXAM INIT		OTHER PRIOR ART-NON PATENT LITERATURE DOCUMENTS	
	AA	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published HICKMAN, H.D., ET AL.: "C-terminal epitope tagging facilitates comparative ligand mapping from MHC class I positive cells" HUMAN IMMUNOLOGY, NEW YORK, NY, US, vol. 61, December 2000 (2000-12) , pages 1339-1346, XP002217153 ISSN: 0198-8859 abstract page 1340, column 1, last paragraph - column 2, paragraph 2 page 1344, column 2, paragraph 1	
	AB	PRILLIMAN, K, ET AL.: "LARGE-SCALE PRODUCTION OF CLASS I BOUND PEPTIDES: ASSIGNING A SIGNATURE TO HLA-B*1501" IMMUNOGENETICS, SPRINGER VERLAG, BERLIN, DE, vol. 45, no. 6, 1997, pages 379-385, XP001113058 ISSN: 0093-7711 page 380, column 2 page 382, column 2, paragraph 2 - paragraph 3	
	AC	HILDEBRAND, W., ET AL.: "PRODUCTION AND APPLICATION OF INDIVIDUAL HLA PROTEIN" HUMAN IMMUNOLOGY, NEW YORK, NY, US, vol. 61, no. SUPPL 2, 2000, page S81 XP008007733 ISSN: 0198-8859 abstract	
EXAMINER		DATE CONSIDERED	
EXAMINER: Initial if citation considered, whether or not citation is in conformance and not considered. Include copy of this form with next communication to applicant. **Place of Publication refers to name of publication in which the information was published.			

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference 619406-9	FOR FURTHER ACTION see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.	
International application No. PCT/US 01/ 49744	International filing date (day/month/year) 18/12/2001	(Earliest) Priority Date (day/month/year) 18/12/2000
Applicant HILDEBRANS, William H.		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to any **language**, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ the international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. With regard to any **nucleotide and/or amino acid sequence** disclosed in the international application, the international search was carried out on the basis of the sequence listing :

☐ contained in the international application in written form.

☐ filed together with the international application in computer readable form.

☒ furnished subsequently to this Authority in written form.

☒ furnished subsequently to this Authority in computer readable form.

☒ the statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.

☒ the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished

2. ☐ **Certain claims were found unsearchable** (See Box I).

3. ☐ **Unity of invention is lacking** (see Box II).

4. With regard to the **title**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the **abstract**,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. The figure of the **drawings** to be published with the abstract is Figure No.

☒ as suggested by the applicant.

☐ because the applicant failed to suggest a figure.

☐ because this figure better characterizes the invention.

☐ None of the figures.

A. CLASSIFICATION OF SUBJECT MATTER

IPC 7 C07K14/705 C12N15/12 C12N15/86

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

EPO-Internal, BIOSIS

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	HICKMAN H D ET AL: "C-terminal epitope tagging facilitates comparative ligand mapping from MHC class I positive cells" HUMAN IMMUNOLOGY, NEW YORK, NY, US, vol. 61, December 2000 (2000-12), pages 1339-1346, XP002217153 ISSN: 0198-8859 abstract page 1340, column 1, last paragraph -column 2, paragraph 2 page 1344, column 2, paragraph 1 --- -/--	1-42, 45-50

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

*** Special categories of cited documents:**

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- * & * document member of the same patent family

Date of the actual completion of the international search

10 January 2003

Date of mailing of the international search report

16/01/2003

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2
NL - 2280 HV Rijswijk
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,
Fax: (+31-70) 340-3016

Authorized officer

Noë, V

C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	PRILLIMAN K ET AL: "LARGE-SCALE PRODUCTION OF CLASS I BOUND PEPTIDES: ASSIGNING A SIGNATURE TO HLA-B*1501" IMMUNOGENETICS, SPRINGER VERLAG, BERLIN, DE, vol. 45, no. 6, 1997, pages 379-385, XP001113058 ISSN: 0093-7711 page 380, column 2 page 382, column 2, paragraph 2 - paragraph 3	1-42, 45-50
Y	HILDEBRAND W ET AL: "PRODUCTION AND APPLICATION OF INDIVIDUAL HLA PROTEIN" HUMAN IMMUNOLOGY, NEW YORK, NY, US, vol. 61, no. SUPPL 2, 2000, page S81 XP008007733 ISSN: 0198-8859 abstract	1-4, 6-11, 13-19, 45-47
Y	US 6 001 365 A (LANGLADE-DEMOYEN PIERRE ET AL) 14 December 1999 (1999-12-14) column 7, line 18 - line 28 column 12, line 7 - line 14 column 13, line 62 - column 14, line 7 column 14, line 17 - line 23 column 15, line 29 - line 45 column 19, line 46 - line 49 column 20, line 29 - line 31 column 33, line 16 - line 40 example 5	1-42, 45-50
Y	WO 95 11702 A (ANERGEN INC) 4 May 1995 (1995-05-04) page 3, line 1 - line 7 page 8, line 7 - line 10 page 10, line 5 - page 11, line 24 page 13, line 6 - line 8 page 15, line 16 - line 19 page 17, line 17 - line 24 page 30, line 7 - line 12 page 33, line 14 - line 20 page 25, line 33 - page 26, line 21	1-42, 45-50
X		51
X	WO 98 06749 A (STROMINGER JACK L ;WUCHERPFENNIG KAI W (US); HARVARD COLLEGE (US)) 19 February 1998 (1998-02-19) page 1, line 20 - line 26 page 18, line 5 - line 31 page 40, line 24 - page 42, line 10	43,44,51

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 6001365	A	14-12-1999	US 5827737 A	27-10-1998
			US 5529921 A	25-06-1996
			US 5314813 A	24-05-1994
			AU 3728193 A	13-09-1993
			EP 1249490 A2	16-10-2002
			EP 0628074 A1	14-12-1994
			JP 7504089 T	11-05-1995
			WO 9317095 A1	02-09-1993
WO 9511702	A	04-05-1995	CA 2175089 A1	04-05-1995
			EP 0726777 A1	21-08-1996
			JP 9504432 T	06-05-1997
			WO 9511702 A1	04-05-1995
			US 6090587 A	18-07-2000
			US 5824315 A	20-10-1998
WO 9806749	A	19-02-1998	AU 730457 B2	08-03-2001
			AU 4072397 A	06-03-1998
			EP 0935607 A2	18-08-1999
			JP 2000516470 T	12-12-2000
			NZ 333915 A	24-11-2000
			WO 9806749 A2	19-02-1998